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Approved for use through 07/31/2006. OMB 0651-0031

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·		Application Number	10/707,453		
TRANSMITTAL FORM (to be used for all correspondence after initial filing)		Filing Date	12/15/2003		
		First Named Inventor	Che-Chih Chang		
		Art Unit	2871		
		Examiner Name	CHOWDHURY, TARIFUR RASHID	,	
Total Number of Pages in This Submission	26	Attorney Docket Number	ADTP0048USA		
	TRANSMITTAL FORM (to be used for all correspondence after initial	TRANSMITTAL FORM (to be used for all correspondence after initial filing)	TRANSMITTAL FORM Application Number Filing Date First Named Inventor Art Unit (to be used for all correspondence after initial filing) Examiner Name	TRANSMITTAL Filing Date 12/15/2003 First Named Inventor Che-Chih Chang Art Unit 2871 (to be used for all correspondence after initial filing) Examiner Name CHOWDHURY, TARIFUR RASHID	

<u> </u>	ENCLOSURES (Check all that apply)							
1	Fee Tran	smittal Form		Drawing(s)	diat appry	, T	After Allowance Communication to TC	
		ee Attached		Licensing-related Papers			Appeal Communication to Board of Appeals and Interferences	
	A Extension	ent/Reply Ifter Final Iffidavits/declaration(s) In of Time Request Abandonment Request on Disclosure Statement		Petition Petition to Convert to a Provisional Application Power of Attorney, Revocal Change of Correspondence Terminal Disclaimer Request for Refund CD, Number of CD(s) Landscape Table on	e Address		Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) Proprietary Information Status Letter Other Enclosure(s) (please Identify below): 1.A copy of the Front Page of Patent. 2.Copies of response to office action submitted on 08/16/2005. 3.Copies of reminder of title change submitted on 04/10/2006.	
	Certified Copy of Priority Document(s) Reply to Missing Parts/ Incomplete Application Reply to Missing Parts under 37 CFR 1.52 or 1.53		Remarks Request for Certificate of Correction of Office Mistake Certificate AUG TURE OF APPLICANT, ATTORNEY, OR AGENT Of Correction Certificate Correction					
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Signat	ture	Courton Ho	s-c					
Printe	d name	Winston Hsu						
Date		AUG 0 1 2006			Reg. No.	41,526		
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This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Signature

Typed or printed name

Brenda Lin

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Reissue	300	150 5	00	250	600	300	
Provisional	200	100	0	0	0	0	
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Multiple dependent						360	180
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SUBMITTED BY

Signature Registration No. (Attorney/Agent) 41,526

Name (Print/Type) Winston Hsu Registration No. (Attorney/Agent) 41,526

Date AUS 0 1 2006

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor : Che-Chih Chang, Chun-Min Ko

Docket No.: ADTP0048USA

Title: BACKLIGHT MODULE AND A LIQUID CRYSTAL DISPLAY USING THE SAME

To:

Commissioner for Patents

P.O. BOX 1450

Alexandria, VA 22313-1450

Subject: Request for Certificate of Correction of Office

Mistake

The above-identified patent was issued on 06/13/2006. The applicant found that the invention title listed on the front page of the patent is not correct (Attachment 1). Documents on record indicate this as an Office mistake of consequence.

The applicant requested to change the invention title in response to Office Action submitted on Aug. 16, 2005 (Attachment 2), and paid issue fee with a reminder of the title change on Apr. 10, 2006 (Attachment 3).

The applicant hereby requests that a Certificate of Correction be issued under 37 CFR 1.322 to correct the invention title from "backlight module having light-shielding layer under two adjacent fluorescent layers and a liquid crystal display using the same" to "BACKLIGHT MODULE AND A LIQUID CRYSTAL DISPLAY USING THE SAME".

1

Respectfully submitted,

Winten Hari Date: AUG 0 1 2006

Winston Hsu, Patent Agent No. 41,526

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time, i.e. 9 AM in D.C. = 9 PM in Taiwan.)

(56)

Please correct the invention title from "backlight module having light-shielding layer under two adjacent fluorescent layers and a liquid crystal display using the same" to "BACKLIGHT MODULE AND A LIQUID CRYSTAL DISPLAY USING THE SAME".

US007061558B2

(12) United States Patent Chang et al.

(10) Patent No.: US 7,061,558 B2 (45) Date of Patent: Jun. 13, 2006

BACKLIGHT MODULE HAVING
LIGHT-SHIELDING LAYER UNDER TWO
ADJACENT FLUORESCENT LAYERS AND A
LIQUID CRYSTAL DISPLAY USING THE
SAME

(75)	Inventore	Che-Chih Chang, Tai-Chung (TW);
(,,,	mventors.	Chun-Min Ko, Chang-Hua Hsien (TW)

(73)	Assignee:	AU Optronics	Corp.,	Hsin-Chu	(TW)
(,-,			p,		,

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35

U.S.C. 154(b) by 0 days.

(21) Appl. No.: 10/707,453

(22) Filed: Dec. 15, 2003

(65) Prior Publication Data

US 2004/0119909 A1 Jun. 24, 2004

(51) Int. Cl.

G02F 1/1335 (2006.01)

G09G 3/36 (2006.01)

H01J 1/62 (2006.01)

See application file for complete search history.

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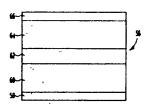
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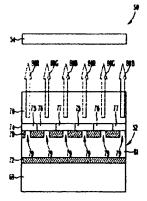
Primary Examiner—Tarifur R. Chowdhury (74) Attorney, Agent, or Firm—Winston Hsu

(57) ABSTRACT

A backlight module comprises an assembly of a rear substrate and a front substrate. A hermetic discharge gap is formed there between and mounted with power electrodes. The backlight module further comprises a discharge gas filled in the discharge gap and a plurality of fluorescent layers of different color emissions disposed on a surface of the assembly of the rear substrate and front substrate. The discharge gas is discharged by the power electrodes.

17 Claims, 7 Drawing Sheets





Attachment 2



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From: Winston Hsu, Registration No. 41,526

Serial No.: 10/707,453

Attorney Docket No.: ADTP0048USA

Subject: Response to the Office Action mailed on 05/18/2005

Total Pages: 16 pages (including cover page)

Winston Hsu 08/16/2005

PTO/SB/21 (09-04)
Approved for use through 07/31/2006, OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Pa	aberwork Reduction Act of 199		ection of information unless it displays a valid OMB control number.
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TF	RANSMITTAL	Filing Date	12/15/2003
	FORM	First Named Inventor	Che-Chih Chang
		Art Unit	2871
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(15 Attorney Docket Number	ADTP0048USA
Total Number o	f Pages in This Submission	10	7.1511 00 100071
		ENCLOSURES (Check all	that apply)
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Date	2444	Winston H	
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I hereby certify the sufficient postage the date shown be	as first class mail in an en	eing facsimile transmitted to the USPTO velope addressed to: Commissioner for l	or deposited with the United States Postal Service with Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on
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PTO/SB/17 (12-04)
Approved for use through 07/31/2006. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Fees pursuant to the Consolidated Accordations at 2,005 filt 4818. FEE TRANSMITTAL For FY 2005 Applicant daims small entity status. See 37 CFR 1.27 TOTAL AMOUNT OF PAYMENT (c) (5) 350.00 METHOD OF PAYMENT (check all that apply) Check Credit Card Money Order None Other (please identify): Deposit Account Reposit Account, Number, 50-3105 For the above-identified deposit account, the Director is hereby authorized to: (check all that apply) Check Credit Card Money Order None Other (please identify): Deposit Account Reposit Account Number, 50-3105 Peposit Account Reposit Account Number Number, 50-3105 Peposit Account Reposit Account Reposit Account Number, 50-3105 Peposit Account Reposit Account Reposit Account Number, 50-3105 Peposit Account Reposit Reposit Reposit Reposit Reposit Reposit Reposit Re	Under the Panery	ADUK KARIHCINDO ACI DI	1995 no nerson	s are required to n	asonna in a collect	inn nt intom	nation lintes	e eveloein ti e	MIN OMB	control number		
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METHOD OF PAYMENT (check all that apply) Check Credit Card Money Order None Other (please identify); Deposit Account Deposit Account Number. 50-3105 Deposit Account Name. North America Intellectual Property Corp. For the above-identified deposit account, the Director is hereby authorized to: (check all that apply) Charge fee(s) indicated below Charge fee(s) indicated below Charge fee(s) indicated below Charge fee(s) indicated below, except for the filling fee Charge any additional fee(s) or underpayments of fee(s) Credit any overpayments under 37 CFR 1.16 and 1.17 WARNING: Information and subtrivation on PTO-2538. Filling FEES Fee (1) Fee (1) Fee (2) Fee (3) Fee (4) Fee (5) Fee (5	Applicant ci	aims small entity s	tatus. See 37	CFR 1.27	Art Unit		2871					
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BACKLIGHT MODULE

Appl. No.

: 10/707,453

Confirmation No. 1452

Applicant

: Che-Chih Chang,

Chun-Min Ko

Filed

: DECEMBER 15, 2003

TC/A.U.

2871

Examiner

: Chowdhury, Tarifur Rashid

Docket No.

: ADTP0048USA0

Customer No.

: 27765

Commissioner for Patents

P.O. Box 1450

Alexandria VA 22313-1450

AMENDMENT

Sir:

In response to the Office action of May 18, 2005, please amend the above-identified application as follows:

Amendments to the Specification begin on page 2 of this paper.

Amendments to the Claims are reflected in the listing of claims which begins on page 3 of this paper.

Remarks/Arguments begin on page 10 of this paper.

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Amendments to the Specification

Please replace the original title with the following new title:

BACKLIGHT MODULE AND A LIQUID CRYSTAL DISPLAY USING THE SAME

5

Appl. No. 10/707,453 Amdt. Dated August 16, 2005

Reply to Office action of May 18, 2005

Amendments to the Claims:

This listing of claims will replace all prior version, and listings, of claims in the application:

Listing of Claims:

5 Claim 1 (currently amended): A backlight module comprising:

an assembly of a rear substrate and a front substrate, a hermetic discharge gap being formed there between and mounted with power electrodes;

a discharge gas filled in the discharge gap, the discharge gas being discharged by the power electrodes; and

a plurality of fluorescent layers of different color emissions disposed on a surface of the assembly of the rear substrate and front substrate;

a light-shielding layer disposed under the two adjacent fluorescent layers of different color emissions; and

an opening disposed under each fluorescent layer.

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Claim 2 (original): The backlight module of claim 1, wherein the fluorescent layers of different color emissions are disposed on an inner surface of the assembly of the rear substrate and the front substrate inside the discharge gap.

Claim 3 (original): The backlight module of claim 1, wherein the fluorescent layers of different color emissions are disposed on an outer surface of the front substrate outside

the discharge gap.

Claim 4 (cancelled)

5 Claim 5 (currently amended): The backlight module of claim [[4]] 1, wherein the light-shielding layer is a first reflective layer.

Claim 6 (currently amended): The backlight module of claim [[4]] 1, wherein the light-shielding layer is a black matrix.

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Claim 7 (currently amended): The backlight module of claim [[1]] 5, further comprising a second reflective layer disposed on an inner surface of the assembly of the rear substrate and the front substrate inside the discharge gap.

Claim 8 (original): The backlight module of claim 1, wherein the fluorescent layers of different color emissions are arranged in a delta shape, in a mosaic shape, in a first strip shape, or in a second strip shape.

Claim 9 (original): The backlight module of claim 1, wherein the rear substrate and the front substrate are made of a glass material.

Claim 10 (currently amended): A liquid crystal display comprising:

- a liquid crystal panel, the liquid crystal panel comprising:
- a first substrate;

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- 5 a second substrate parallel with and spaced apart from the first substrate; and
 - a liquid crystal layer disposed between the first substrate and the second substrate; and

a backlight module, operable to illuminate the liquid crystal panel for displaying color images, and the backlight module including a plurality of fluorescent layers configured to emit light of different colors to the liquid crystal panel;

a light-shielding layer disposed under the two adjacent fluorescent layers of different color emissions; and

an opening disposed under each fluorescent layer.

15 Claim 11 (original): The liquid crystal display of claim 10, wherein the backlight module further comprising:

an assembly of a third substrate and a fourth substrate above the third substrate, a hermetic discharge gap being formed there between and mounted with power electrodes;

a discharge gas filled in the discharge gap, and the discharge gas being discharged by the power electrodes; and

Appl. No. 10/707,453

Amdt. Dated August 16, 2005

Reply to Office action of May 18, 2005

a plurality of fluorescent layers of different color emissions being disposed on a surface of the assembly of the third substrate and the fourth substrate.

Claim 12 (original): The liquid crystal display of claim 11, wherein the fluorescent layers of different color emissions are disposed on an inner surface of the assembly of the third substrate and the fourth substrate inside the discharge gap.

Claim 13 (original): The liquid crystal display of claim 11, wherein the fluorescent layers of different color emissions are disposed on an outer surface of the fourth substrate outside the discharge gap.

Claim 14 (cancelled)

Claim 15 (currently amended): The liquid crystal display of claim [[14]] 10, wherein the light-shielding layer is a first reflective layer.

Claim 16 (currently amended): The liquid crystal display of claim [[14]] 10, wherein the light-shielding layer is a black matrix.

20 Claim 17 (currently amended): The liquid crystal display of claim [[11]] 15, further comprising a second reflective layer disposed on an inner surface of the assembly of the

third substrate and the fourth substrate inside the discharge gap.

Claim 18 (original): The liquid crystal display of claim 11, wherein the fluorescent layers of different color emissions are arranged in a delta shape, in a mosaic shape, in a first strip shape, or in a second strip shape.

Claim 19 (original): The liquid crystal display of claim 11, wherein the fourth substrates is permeable to ultraviolet rays.

10 Claim 20 (new): A backlight module comprising:

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an assembly of a rear substrate and a front substrate, a hermetic discharge gap being formed there between and mounted with power electrodes;

a discharge gas filled in the discharge gap, the discharge gas being discharged by a luminous body; and

a plurality of fluorescent layers of different color emissions disposed on a surface of the assembly of the rear substrate and front substrate.

Claim 21 (new): The backlight module of claim 20, wherein the luminous body comprises a cold cathode flat fluorescence lamp (CCFFL) and a light emitting diode (LED).

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Claim 22 (new): The backlight module of claim 20, wherein the fluorescent layers of different color emissions are disposed on an inner surface of the assembly of the rear substrate and the front substrate inside the discharge gap.

5 Claim 23 (new): The backlight module of claim 20, wherein the fluorescent layers of different color emissions are disposed on an outer surface of the front substrate outside the discharge gap.

Claim 24 (new): The backlight module of claim 20, further comprising a light-shielding layer disposed between the two adjacent fluorescent layers of different color emissions.

Claim 25 (new): The backlight module of claim 24, wherein the light-shielding layer is a first reflective layer.

Claim 26 (new): The backlight module of claim 25, wherein the light-shielding layer is a black matrix.

Claim 27 (new): The backlight module of claim 25, further comprising a second reflective layer disposed on an inner surface of the assembly of the rear substrate and the front substrate inside the discharge gap.

Claim 28 (new): The backlight module of claim 20, wherein the fluorescent layers of different color emissions are arranged in a delta shape, in a mosaic shape, in a first strip shape, or in a second strip shape.

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Claim 29 (new): The backlight module of claim 20, wherein the rear substrate and the front substrate are made of a glass material.

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REMARKS/ARGUMENTS

1. Amendment to the specification, claims 7, 17, and claims 1, 10:

The non-descriptive title has been written to more clearly indicate the invention. The original title "BACK MODULE" is now more descriptively prosed as, "BACKLIGHT MODULE AND A LIQUID CRYSTAL DISPLAY USING THE SAME". Claims 7, 17 are amended to be dependent on claims 5, 15 to remove the problem with the lack of antecedent basis. The applicant has amended claims 1, 10 to respectfully add the limitations of claims 4, 14 in order to distinguish from Dirscheri et al. (US 6,683,659), as will be explained below. No new matter is introduced through these amendments.

New claims 20-29 are added. Claim 20 recites a discharge gas is discharged by a luminous body. Claim 21 mentions the luminous body comprises a cold cathode flat fluorescence lamp (CCFFL) and a light emitting diode (LED). Paragraph [0018] of the applicant's specification states, "The backlight module 52 comprises a cold cathode flat fluorescence lamp (CCFFL) or a light emitting diode (LED) for use as a luminous body".

Thus, no new matter is added.

2. Rejection of claims 1, 2, 4-6 and 8-10 under 35 U.S.C. 102 (e) as being anticipated by Dirscheri et al. (US 6,683,659).

Claims 1, 10 have been amended to overcome this rejection. Specifically, the limitations "a light-shielding layer disposed under the two adjacent fluorescent layers of different color emissions; and an opening disposed under each fluorescent layer" have been added to the claims. The amended claims 1 and 10 are different from Dirscheri et al. (US 6,683,659), because of the following reasons:

(1) As illustrated in Fig. 2 of the applicant's invention, the light-shielding layer 78

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and the opening 79 are under the two adjacent fluorescent layers 74. But, the black matrix 13 of Dirscheri et al. (US 6,683,659) are formed between the two phosphor layers 11, as Fig. 1 shows. The position of the light-shielding layer 78 of the present invention is different form the black matrix 13 of Dirscheri et al. (US 6,683,659).

- (2) The light-shielding layer 78 of the applicant's invention is able to reflect the UV light between the reflective layers 72, 78 to avoid the UV light loss. But the black matrix 13 of Dirscheri et al. (US 6,683,659) is able to absorb the UV light for purifying each color of the phosphor layer 11. The function of the light-shielding layer 78 of the applicant's invention is that the light-shielding layer 78 can gather the UV light. The function of the black matrix 13 of Dirscheri et al. (US 6,683,659) is that the black matrix 13 can absorb the UV light. The light-shielding layers (the black matrix) of these two cases have different functions.
- (3) Furthermore, the applicant's invention contains the opening 79 that disposed under each fluorescent layer 74. The light-shielding layer 78 of the applicant's invention is able to reflect the UV light between the reflective layers 72, 78 to avoid the UV light loss. Then, the UV light emits from the opening 79 into the fluorescent layer 74. But Dirscheri et al. (US 6,683,659) doesn't have any opening under the phosphor layer.

Thus, the amended claims 1 and 10 are patentably distinguishable from Dirscheri et al. (US 6,683,659). Reconsideration of the amended claims is politely requested.

3. Rejection of claims 1, 2, 8-12, 18 and 19 under 35 U.S.C. 102 (e) as being anticipated by Sumiyoshi (US 2003/0122771).

In Fig. 22 and the twenty-eighth embodiment of Sumiyoshi (US 2003/0122771), it notes "both a common electrode 14 and a scanning electrode 13 are made up of a plurality of belt-shaped electrodes being placed in the same direction and each of the belt-shaped electrodes serves as a backlight corresponding to light having one of R, G, and B colors can

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be performed". And the gas layer 12 is disposed between the common electrode 14 and the scanning electrode 3, as Fig. 22 shows. Furthermore, when both the scanning electrode 3 of the substrate 22 and the common electrode 14 of the substrate 21 are discharged and produce the voltage between them, the voltage produces UV light and makes the fluorescent material layer 5 emit light. But, in applicant's invention, the voltage is produced by two adjacent power electrodes of the rear substrate. The applicant's structure and voltage producing method are therefore different from Sumiyoshi (US 2003/0122771).

Thus, the amended claims 1 and 10 are patentably distinguishable from Sumiyoshi (US 2003/0122771). Reconsideration of the amended claims is politely requested.

4. Rejection of claim 3 under 35 U.S.C. 103 (a) as being anticipated by Dirscheri et al. (US 6,683,659).

Claims 1 and 10 are patentably distinguishable from Dirscheri et al. (US 6,683,659) for the above-mentioned reasons. Their dependent claims are also patentable.

5. Rejection of claim 7 under 35 U.S.C. 103 (a) as being anticipated by Dirscheri et al. (US 6,683,659) in view of Eom (US 2004/0051819).

Claims 1 and 10 are patentably distinguishable from Dirscheri et al. (US 6,683,659) for the above-mentioned reasons. Their dependent claims are also patentable.

6. Rejection of claims 3 and 13 under 35 U.S.C. 103 (a) as being anticipated by Sumiyoshi (US 2003/0122771).

Claims 1 and 10 are patentably distinguishable from Sumiyoshi (US 2003/0122771) for the above-mentioned reasons. Their dependent claims are also patentable.

7. Rejection of claims 14-16 under 35 U.S.C. 103 (a) as being anticipated over Sumiyoshi (US 2003/0122771) in view of Dirscheri et al. (US 6,683,659).

Claims 1 and 10 are patentably distinguishable from Sumiyoshi (US 2003/0122771)

and Dirscheri et al. (US 6,683,659) for the above-mentioned reasons. Their dependent claims are also patentable.

Applicant respectfully requests that a timely Notice of Allowance be issued in this case.

10 Sincerely yours,

Vintan Har

Date: __August 16, 2005

Winston Hsu, Patent Agent No. 41,526

15 P.O. BOX 506, Merrifield, VA 22116, U.S.A.

Voice Mail: 302-729-1562 Facsimile: 806-498-6673

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Note: Please leave a message in my voice mail if you need to talk to me. (The time in D.C. is 12 hours behind the Taiwan time, i.e. 9 AM in D.C. = 9 PM in Taiwan.)

Attachment 3



North America Intellectual Property corporation

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Winston Hsu 04/10/2006

PTO/SB/21 (09-04)

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Firm Name	North A	America Intellectua	al Prope	erty C	orpor	ation
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Printed name		Winston	Hsu			
Date 04/10/2006			Reg. No.			41,526
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BACKLIGHT MODULE AND A LIQUID CRYSTAL DISPLAY USING THE SAME

Appl. No.

: 10/707,453

Confirmation No. 1452

Applicant

Che-Chih Chang et al.

Filed

December 15,2003

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Examiner

Chowdhury, Tarifur Rashid

Docket No.

ADTP0048USA0

Customer No.

: 27765

Commissioner for Patents

P.O. Box 1450

Alexandria VA 22313-1450

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Reminder of the Title Change

Dear Sir,

The applicant has requested to substitute the title of the current invention in the Response to Office action (Amendment to the Specification) submitted on 08/16/2005.

The applicant hereby made the payment of USD 1700 for the issue fee and publication fee and would like to have the patent issued with the changed title:

"BACKLIGHT MODULE AND A LIQUID CRYSTAL DISPLAY USING THE

SAME" according to the request presented in the said communication.

Please confirm your receiving of this communication by the following contacting information.

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Respectfully submitted,

	love to the			
5	Wendon tav	Date:	04/10/2006	

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10 e-mail: winstonhsu@naipo.com

Note: Please leave a message in my voice mail if you need to talk to me. (The time in D.C. is 12 hours behind the Taiwan time, i.e. 9 AM in D.C. = 9 PM in Taiwan.)